

3 f1) determining whether a first combined cut/boost of
4 the first equalizer band and the second equalizer band is too
5 great;

6 f2) determining whether a second combined cut/boost of
7 the second equalizer band and the third equalizer band is too
8 great; and

9 f3) determining whether a third combined cut/boost of
10 the first equalizer band and the third equalizer band is too
11 great.

1 13. (amended) A computer program product for use in
2 conjunction with a computer system, the computer program
3 product comprising a computer readable storage medium and a
4 computer program mechanism embedded therein, the computer
5 program mechanism comprising one or more modules to improve
6 audio quality of the computer system, the one or more modules
7 including:

8 a first set of instructions to determine a type of a
9 Universal Serial Bus (USB) speaker of the computer system;

10 a second set of instructions to select a set of filter
11 coefficients for a digital filter based upon the type of the
12 USB speaker; and

13 a third set of instructions to realize a parametric
14 equalizer using a digital filter, the digital filter producing
15 an output signal to be input to the USB speaker from the set
16 of filter coefficients and an input signal..

1 14. (amended) The computer program product of claim 13
2 wherein the second set of instructions further include:

3 a fourth set of instructions to receive equalizer
4 parameters; and

5 a fifth set of instructions to calculate the set of
6 filter coefficients from the equalizer parameters if received
7 without regard to the type of the speaker.

1 15. (amended) The computer program product of claim 13
2 wherein the third set of instructions comprise:
3 a seventh set of instructions to realize a first
4 equalizer band of the parametric equalizer, the first
5 equalizer band having a first cut/boost parameter;
6 an eighth set of instructions to realize a second
7 equalizer band of the parametric equalizer, the second
8 equalizer band having a second cut/boost parameter; and
9 a ninth set of instructions to realize a third equalizer
10 band of the parametric equalizer, the third equalizer band
11 having a third cut/boost parameter.

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1 16. (amended) The computer program product of claim 15
2 wherein a tenth set of instructions for insuring a first
3 combined cut/boost of the first, second and third equalizer
4 bands is not too great.

1 17. (amended) The computer program product of claim 16
2 wherein the tenth set of instructions comprise:
3 an eleventh set of instructions to determine whether a
4 second combined cut/boost of the first equalizer band and the
5 second equalizer band is too great;
6 a twelfth set of instructions to determine whether a
7 third combined cut/boost of the second equalizer band and the
8 third equalizer band is too great; and
9 a thirteenth set of instructions to determine whether a
10 fourth combined cut/boost of the first equalizer band and the
11 third equalizer band is too great.

1 18. (amended) The computer program product of claim 17
2 wherein:
3 the eleventh set of instructions uses a relationship for
4 adjacent bands to determine whether the second combined
5 cut/boost is too great;

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the twelfth set of instructions uses the relationship for
adjacent bands to determine whether the third combined
cut/boost is too great; and

the thirteenth set of instructions uses a relationship
for non-adjacent bands to determine whether the fourth
combined cut/boost is too great.
